

**Amendments to the Claims**

Claims 1-12 (Canceled)

13. (New) A header decompression apparatus for decompressing a compressed header of a packet for transmission by referring to reference information being the same as reference information referred to for header compression by a transmitting side, said apparatus comprising:

- a reference information manager for storing and managing said reference information;
- a header decompressor, provided with the received packet, for carrying out header decompression by referring to the reference information stored in said reference information manager;
- an error detector for detecting an error in the packet including the decompressed header by said header decompressor;
- a counter/storage for counting a number of packets having an error detected by said error detector from among the last W packets decompressed by said header decompressor; and
- an update request unit for transmitting an update request for requesting update of said reference information stored in said reference information manager, based on the values counted by said counter/storage.

14. (New) The header decompression apparatus according to claim 13, wherein W is a predetermined value stored in said counter/storage, and said counter/storage counts the number of packets R having an error detected by said error detector from among the last W packets decompressed by said header decompressor, wherein W is an integer and R is an integer.

15. (New) The header decompression apparatus according to claim 14, wherein said update request unit determines, based on W and R counted by said counter/storage, that the reference information stored in said reference information manager has errors when R is larger than a predetermined value.

16. (New) The header decompression apparatus according to claim 15, wherein

the predetermined value is determined based on W.

17. (New) A header decompression method for receiving a packet having a compressed header and decompressing the compressed header by referring to reference information, said method comprising:

a header decompressing step, provided with the received packet, of carrying out header decompression by referring to the reference information;

an error detecting step of detecting an error in the packet including the header decompressed in said header decompressing step;

a counting /storing step of counting a number of packets having an error detected in said error detecting step from among the last W packets decompressed in said header decompressing step; and

an update requesting step of transmitting an update request for requesting update of the reference information, based on the values counted in said counting/storing step.

18. (New) The header decompression method according to claim 17, wherein

W is a predetermined value stored in said counting/storing step, and said counting/storing step counts the number of packets R having an error detected in said error detecting step from among the last W packets decompressed in said header decompressing step, wherein W is an integer and R is an integer.

19. (New) The header decompression apparatus according to claim 18, wherein

said update requesting step determines, based on W and R counted in said counting/storing step, that the reference information has errors when R is larger than a predetermined value.

20. (New) The header decompression method according to claim 19, wherein

in said update requesting step, the predetermined value is determined based on W.

21. (New) A computer-readable recording medium with a program recorded therein, the

program being executed in a computer system for receiving a packet having a compressed header and decompressing the compressed header by referring to reference information, said program comprising:

a header decompressing step, provided with the received packet, of carrying out header decompression by referring to the reference information;

an error detecting step of detecting an error in the packet including the header decompressed in said header decompressing step;

a counting /storing step of counting a number of packets having an error detected in said error detecting step from among the last W packets decompressed in said header decompressing step; and

an update requesting step of transmitting an update request for requesting update of the reference information, based on the values counted in said counting/storing step.

22. (New) A computer-readable recording medium according to claim 21, wherein

W is a predetermined value stored in said counting/storing step, and said counting/storing step counts the number of packets R having an error detected in said error detecting step from among the last W packets decompressed in said header decompressing step, wherein W is an integer and R is an integer.

23. (New) The computer-readable recording medium according to claim 22, wherein

in said update requesting step determines, based on W and R counted in said counting/storing step, that the reference information has errors when R is larger than a predetermined value.

24. (New) The computer-readable recording medium according to claim 23, wherein

in said update requesting step, the predetermined value is determined based on W.

25. (New) A program executed in a computer system for receiving a packet having a compressed header and decompressing the compressed header by referring to reference information, said program comprising:

a header decompressing step, provided with the received packet, of carrying out header decompression by referring to the reference information;

an error detecting step of detecting an error in the packet including the header decompressed in said header decompressing step;

a counting /storing step of counting a number of packets having an error detected in said detecting step from among the last W packets decompressed in said header decompressing step; and

an update requesting step of transmitting an update request for requesting update of the reference information, based on the values counted in said counting/storing step.

26. (New) The program according to claim 25, wherein,

W is a predetermined value stored in said counting/storing step, and said counting/storing step counts the number of packets R having an error detected in said error detecting step from among the last W packets decompressed in said header decompressing step, wherein W is an integer and R is an integer.

27. (New) The program according to claim 26, wherein

said update requesting step determines, based on W and R counted in said counting/storing step, that the reference information has errors when R is larger than a predetermined value.

28. (New) The program according to claim 27, wherein

in said update requesting step, the predetermined value is determined based on W.